

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD



Class : 7	Subject : ALG/GEOM	Term : FIRST TERM	Max Mai	rks : 60
Q1: Length and b square units)		e-9) units respectively. Area of the rectangle is(in	Marks :	1
1 . x ² -x +11				
2 . x ² +x -11				
3. $x^2 - x - 72$		(This Answer is Correct)		
4. $x^2 + x + 72$		_		
Q 2 : 101² is equal	to		Marks :	1
1 . 10201		(This Answer is Correct)		
2. 10200		_		
3. 1000				
4. 1001				
Q3 : If a= 31 and b	o =19, find the value of a² +2ab +b²		Marks :	1
1 . 2500		(This Answer is Correct)		
2. 250				
3. 100				
4. 200				
Q 4 : (x+2)(x+1) is	equal to		Marks :	1
1 • $x^2 + 3x + 2$		(This Answer is Correct)		
$2. x^2 + 9x + 7$		_		
$3. x^2+9x+9$				
4. x² +9x –	5			
Q 5 : Square of(x -	– 1) is		Marks :	1
1 . x ² +3x +2				

2 · x²-2x+1 3 · x² +x -11

4. $x^2 + x + 72$

(This Answer is Correct)

Q6:	(x+y)(x-y) is equal to		Marks :	1
	1 . x+y +xy			
	2 . x+y - xy			
	3. $x^2 - y^2$	(This Answer is Correct)		
	4. $x^2 + y^2$			
Q7:	(x²+y²) (x² - y²) is equal to		Marks :	1
	1. x² - y³			
	2. x ⁴ - y ⁴	(This Answer is Correct)		
	$3. x^4 + y^4$			
	4 . x + y			
Q8:	The sum of a+b+ab, -b+c-bc, and -c -a +ac is		Marks :	1
	1. 1			
	2. 0			
	3. ab-bc+ac	(This Answer is Correct)		
	4 . 2a+2b-2c+ab	_		
Q9:	The sides of a right angled triangle are		Marks :	1
	1. 3,4,5	(This Answer is Correct)		
	2 . 1,2,3			
	3. 0,1,2			
	4 . 1,-1, 2			
Q 10 :	Possible angles of a triangle are		Marks :	1
	1. 45°, 45°, 90°	(This Answer is Correct)		
	2. 90°, 90°, 0°	_		
	3. 70°, 80°, 90°			
	4 . 180°, 0°, 1°			
Q 11 :	One angle of an isosceles triangle is 90°.Each of the base angle is		Marks :	1
	1. 60°			
	2. 45°	(This Answer is Correct)		
	3. 90°			

4. 360°

Q 12 :	If the lengths of two sides of a right triangle are 3 and 4 units, then length of hypotenuse is		Marks :	1
	1. 2			
	2. 3			
	3. 4			
	4. 5	(This Answer is Correct)		
Q 13 :	Triangle whose all sides are equal		Marks :	1
	1 . equilateral	(This Answer is Correct)		
	2. isosceles	_		
	3 . scalene			
	4 . none of these			
Q 14 :	Triangles whose two sides are equal		Marks :	1
	1. isosceles	(This Answer is Correct)		
	2. scalene	_		
	3 . equilateral			
	4. none of these			
Q 15 :	Triangles with all unequal sides		Marks :	1
	1 . scalene	(This Answer is Correct)		
	2 . equilateral	_		
	3. isosceles			
	4 . Right triangle			
Q 16 :	In a polynomial, the exponents of the variables are always		Marks :	1
	1 . Integers			
	2. Positive integers	(This Answer is Correct)		
	3 . Non-positive integers	_		
	4 . none of these			
Q 17 :	Which of the following daily life situation best describes rotation?		Marks :	1
	1 . Opening a sliding glass door			
	2 . Flipping a page in a book			
	3 . Closing a drawer in the desk			
	4. Turning the minute hand of a clock to adjust time	(This Answer is Correct)		

Q 18 :	The letter which still looks the same after horizontal reflection is		Marks :	1
	1. M	(This Answer is Correct)		
	2. E			
	3. K			
	4. Z			
Q 19 :	The sum of two interior opposite angles is equal to		Marks :	1
	1 . exterior	(This Answer is Correct)		
	2. 90°			
	3. 180°			
	4 . none of these			
Q 20 :	The total measure of the three angles of a triangle is		Marks :	1
	1. 90°			
	2. 360°			
	3 . 180°	(This Answer is Correct)		
	4 . 270°			
Q 21 :	Two angles of a triangle are 50° and 70° degree,then the third ang	gle is	Marks :	1
	1. 60°	(This Answer is Correct)		
	2. 70°			
	3. 80°			
	4 . 100°			
Q 22 :	The sum of the lengths of any two sides of a triangle isthan	n the third side.	Marks :	1
	1. less			
	2. greater	(This Answer is Correct)		
	3. equal	_		
	4 . none of these			
Q 23 :	In a triangle if all angles are equal, then the measure of each angl	e is	Marks:	1
	1. 50°			
	2. 90°			
	3. 60°	(This Answer is Correct)		
	4 . 100°	_		

Q 24 :	Which is the longest side of a right angle?		Marks :	1
	1. base			
	2. perpendicular			
	3 . hypotenuse	(This Answer is Correct)		
	4 . none of these			
Q 25 :	Acute angles of a right triangle are		Marks :	1
	1 . complementary	(This Answer is Correct)		
	2 . supplementary	_		
	3. equal			
	4. none of these			
Q 26 :	Measure of each angle of equiangular triangle is		Marks :	1
	1. 45°			
	2. 360°			
	3. 90°			
	4. 60°	(This Answer is Correct)		
Q 27 :	Number of exterior angles of a triangle is		Marks :	1
	1.3	(This Answer is Correct)		
	2. 1			
	3. 2			
	4. 0			
Q 28 :	Number of interior angles of a triangle is		Marks:	1
	1. 5			
	2. 3	(This Answer is Correct)		
	3. 1			
	4. 2			
Q 29 :	Ratio of angles of a triangle is 1:1:2, the biggest angle is	□ (T	Marks :	1
	1. 90°	(This Answer is Correct)		
	2. 45°			
	3 . 120°			
	4 . 105°			

021	Entab - CampusCare® School ERP Software			
Q 30 :	A closed figure formed by joining three non-collinear points is called	a	Marks :	1
	1 . Square	_		
	2. Triangle	(This Answer is Correct)		
	3 . Rectangle			
	4. Circle			
Q 31 :	Subtract 2ab from −2ab.		Marks :	1
	1 4ab	(This Answer is Correct)		
	2. 2ab			
	3. 0			
	4. ab			
Q 32 :	$(7x^3 - 5x + 8) - (4x^3 - 2x + 1) =$		Marks :	1
	1 . 3x³ - 3x + 7	(This Answer is Correct)		
	2. $3x^3 - 3x + 6$	_		
	$3. 3x^3 - 3x + 10$			
	4. $3x^3 - 3x + 4$			
Q 33 :	$(2x^3 + 3x^2 - 5) + (3x^2 + 7) =$		Marks :	1
	1 . $2x^3 + 6x^2 + 2$	(This Answer is Correct)		
	$2. 2x^3 + 6x^2$	_		
	$3. 2x^3 + 6x^2 - 1$			
	4. $2x^3 + 6x$			
Q 34 :	Which of the following is obtained by subtracting x^2-y^2 from y^2-x^2 ?		Marks :	1
	1 . 2(x² - y²)	(This Answer is Correct)		
	2 . 2(x - y)	_		
	3 . x²-y²			
	4 . none of these			

- Q 35: An expression with only one term is called a_____

 - 1 . monomial
 - 2. binomial
 - $3\ .\ trinomial$
 - 4. none of these

Marks: 1

(This Answer is Correct)

Q 36 :	x + y – xy is a		Marks :	1
	1. monomial			
	2. binomial			
	3. trinomial	(This Answer is Correct)		
	4 . none of these	_		
Q 37 :	The value of the expression $5x - 2$ when $x = 2$ is		Marks :	1
	1. 7			
	2.8	(This Answer is Correct)		
	3.9			
	4. 10			
Q 38 :	Which of the following are like terms?		Marks :	1
	1 . 7x, 12y			
	2 . 15 x, 21x	(This Answer is Correct)		
	3 . 3xy, 3x			
	4 . none of these			
Q 39 :	The coefficient of x in $8 - x + y$ is		Marks:	1
	1. -1	(This Answer is Correct)		
	2. 0			
	3. y			
	4.8			
Q 40 :	In expressions ax + by and 8x - 4y; a, b, 8 and 4 are		Marks:	1
	1 . coefficients	(This Answer is Correct)		
	2 . variables			
	3 . exponents			
	4 . none of these			
Q 41 :	In expressions ax + by and 8x - 4y, x and y are		Marks :	1
	1 . exponents			
	2. coefficients			
	3 . variables	(This Answer is Correct)		
	4 . none of these			

Q 42 :	An obtuse triangle has an angle more than		Marks :	1
	1. 90°	(This Answer is Correct)		
	2. 80°			
	3. 180°			
	4 . 360°			
Q 43 :	A triangle has angle measurements of 26°, 59°, and 95°.The triang	le is	Marks :	1
	1. obtuse	(This Answer is Correct)		
	2. right	_		
	3. acute			
	4. equiangular			
Q 44 :	A triangle which has angle measurements of 54°, 52°, and 74° is		Marks :	1
	1. obtuse			
	2. acute	(This Answer is Correct)		
	3. right	_		
	4 . equiangular			
Q 45 :	A triangle which has angle measurements of 74°, 90°, and 16° is		Marks :	1
	1. acute			
	2. obtuse			
	3. right	(This Answer is Correct)		
	4 . none of these	_		
Q 46 :	A triangle has side lengths of 19 centimetres, 19 centimetres, and triangle is it?	20 centimetres. What kind of	Marks :	1
	1. isosceles	(This Answer is Correct)		
	2 . equilateral			
	3. scalene			
	4 . Right triangle			
Q 47 :	When classifying a triangle by its angles, what type of triangle has	one right angle?	Marks :	1
	1 . right triangle	(This Answer is Correct)		
	2. equilateral			

4. Right triangle

Q 48: When you reflect a shape, you____ over an axis or line Marks: 1

- 1. rotate
- 2. slide
- **3** . flip
- 4. none of these

(This Answer is Correct)

(This Answer is Correct)

(This Answer is Correct)

(This Answer is Correct)

Marks: 1

Marks: 1

Marks: 1

Q 49: (x+4)(x+4)=

- 1 . x²+8x+16
- 2. x²+8x
- $3. x^2+8x+4$
- 4 . x²+8x-4

Q 50: (a-b)(a-b)= **Marks**: 1

- 1. a²+2ab+b²
- 2 . a²-2ab+b²
- 3. a2+2ab
- 4. a²+2ab+b

Q 51: $(x+1)(x-1)(x^2+1)=$ **Marks**: 1

- **1** . x⁴-1
- 2. x⁴+1
- 3. x²-1
- 4. none of these

(x-5)(x+5) =

1 . x²-25

Q 52:

- 1 . X--25
- 2. x²-5
- 3. x²+25
- 4 . x²-25x

(This Answer is Correct)

Q 53: Which letter looks same after vertical reflection?

- 1. A
- 2. M

(This Answer is Correct)

3. E

	4. T			
Q 54 :	The word which looks same after horizontal reflection		Marks :	1
	1. MOM	(This Answer is Correct)		
	2. CAT	_		
	3. PUBG			
	4. CRICKET			
Q 55 :	In triangle ABC, if a²+b²=c², then one angle is always		Marks:	1
	1. 90°	(This Answer is Correct)		
	2. 100°			
	3. 0°			
	4 . 25°			
Q 56 :	The degree of the polynomial 5+2y+y² is		Marks :	1
	1.2	(This Answer is Correct)		
	2. 1			
	3. 0			
	4. 3			
Q 57 :	Which of these is not a polynomial?		Marks :	1
	1. 5-7x			
	2. 7			
	3. 3.4x			
	4. √x	(This Answer is Correct)		
Q 58 :	Degree of the polynomial 8a³b⁴+a²b² is		Marks :	1
	1.7	(This Answer is Correct)		
	2. 4			
	3. 0			
	4. 5			
Q 59 :	Ten's digit of a number is x and the unit's digit is y. The number is		Marks :	1

1. 10y+x

(This Answer is Correct)

- **2** . 10x+y
- 3. xy
- 4 . x+y

Q 60: 101 × 99 is equal to **Marks**: 1

1. 9999

(This Answer is Correct)

- 2.99
- 3.999
- 4. 9001